

**Subject card**

<b>Subject name and code</b>	Emergency management - lecture, PG_00091468						
<b>Field of study</b>	Water Management and Protection of Water Resources						
<b>Date of commencement of studies</b>	October 2024		<b>Academic year of realisation of subject</b>			2026/2027	
<b>Education level</b>	undergraduate studies		<b>Subject group</b>			Obligatory subject group in the field of study Subject group related to scientific research in the field of study Subject group related to practical vocational preparation	
<b>Mode of study</b>	full-time studies		<b>Mode of delivery</b>			at the university	
<b>Year of study</b>	3		<b>Language of instruction</b>			Polish	
<b>Semester of study</b>	6		<b>ECTS credits</b>			2.0	
<b>Learning profile</b>	practical		<b>Assessment form</b>				
<b>Conducting unit</b>	Pracownia Hydrologii -> Katedra Hydrologii -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr inż. Marzenna Sztobryn				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		10.0		15.0	55
<b>Subject objectives</b>	To gain basic knowledge of the legal basis and organization of the crisis management system, along with the tasks and competencies of institutions. To become familiar with the work of crisis management centers at the provincial and district/municipal levels. Recognizing and interpreting the causes of emergencies. The impact of natural disasters and, in particular, floods and droughts on the lives of the population, the environment and infrastructure. The role of the hydrological and meteorological service in the crisis management system.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[GWOZWL3-U03] observe and describe the changes taking place in water management and predict further directions of its development as well as conduct a critical analysis of: case studies of problems of water management and protection of water resources in terms of impact on ecological, social and economic systems natural valorization and assessment of quality of the environment	K_U03 - ability to observe and describe potential hazards and critically analyze the problems of the impact of hazards on ecological, social, and economic systems based of case studies	[SU1] oral statement/conversation/discussion
	[GWOZWL3-W03] organization and legal basis of environment protection, nature protection and water management, as well as the principles of organization and operation of hydrological and meteorological services and the basics of Integrated Environmental Monitoring	K_W03 - knowledge and understanding of the crisis management system in the Republic of Poland along with the legal acts, proper discernment of the causes of the emergence of various types of threats: natural, anthropogenic and in cyberspace, terrorist, knowledge and understanding of the functioning of individual services within the crisis management system	[SW1] oral statement/conversation/discussion
	[GWOZWL3-K05] take responsibility for the safety of their own work and that of others, dealing with emergencies, exercising caution in the laboratory and in the field, responsibility for entrusted equipment and apparatus	K_K05 - is ready to take responsibility for independently made decisions, to fulfill duties for the public interest related to responding to threats	[SK1] oral statement/conversation/discussion
Subject contents	1. Causes (natural and anthropogenic) of emergencies 2. Criteria for assessing a crisis situation 3. Legal bases of crisis management 4. Structure of crisis management in the Republic of Poland 5. Natural disasters and their impact on the basic components of protection ( population with property, environment, infrastructure) 6. Response strategy to natural disasters, especially floods and droughts		
Prerequisites and co-requisites	Knowledge of the knowledge of physical and economic geography and the hydrographic division of Poland from the geography lessons within the scope of the secondary school curriculum; knowledge of the subjects studied: general hydrology, basics of water management, meteorology and climatology, legal foundations in environmental protection and water management, socio-economic aspects of water management, water construction and coastal protection, functioning of the hydrological and meteorological service		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	activity during discussions	51.0%	100.0%
Recommended reading	Basic literature	Grocki R. 2012 Zarządzanie Kryzysowe dobre praktyki. Difin SA  Ustrnul Z., Czekierda D., 2009 Atlas ekstremalnych zjawisk meteorologicznych oraz sytuacji synoptycznych w Polsce, IMGW, seria: Atlasy,  Sztobryn M. i in. pod redakcją Lorenc H. 2012 Kłęski żywiołowe, a bezpieczeństwo wewnętrzne kraju. projekt KLIMAT. T3., Warszawa 2012 Wibig J. i In. 2012. Warunki klimatyczne i oceanograficzne w Polsce i na Bałtyku południowym. Spodziewane zmiany i wytyczne do opracowania strategii adaptacyjnych w gospodarce krajowej. projekt KLIMAT. T1.IMGW PIB, Warszawa 2012  Sztobryn M. i in. Działalność służb hydrologiczno-meteorologicznych Instytutu Meteorologii i Gospodarki Wodnej. Oddział Morski w Gdyni podczas powodzi sztormowej 13-15.10.2009. Raport IMGW PIB.	
	Supplementary literature	Ustawy z zakresu zarządzania kryzysowego, klęskach i stanach nadzwyczajnych, itp.  W. Lidwa, W. Krzeszowski, W. Więcek, zarządzanie w sytuacjach kryzysowych. Warszawa 2010 J. Ziarko, J. Walas-trębacz, Podstawy zarządzania kryzysowego cz.1. Kraków 2010.	
	eResources addresses	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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